

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
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Application Serial Number: 10/562,776
Source: TEWP
Date Processed by STIC: 1/10/06

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PCT

RAW SEQUENCE LISTING

DATE: 01/10/2006

PATENT APPLICATION: US/10/562,776

TIME: 08:50:37

Input Set : A:\248832.ST25.txt

Output Set: N:\CRF4\01102006\J562776.raw

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3 <110> APPLICANT: Kuroita, Toshihiro
4     Sogabe, Atsushi
5     Takarada, Yutaka
6     Tanaka, Naoki
8 <120> TITLE OF INVENTION: PROTEIN ACHIEVING IMPROVED BLOCKING EFFICIENCY
10 <130> FILE REFERENCE: 248832
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/562,776.
C--> 12 <141> CURRENT FILING DATE: 2005-12-29
12 <150> PRIOR APPLICATION NUMBER: PCT/ JP04/09785
13 <151> PRIOR FILING DATE: 2004-07-02
15 <150> PRIOR APPLICATION NUMBER: JP 2003-191081
16 <151> PRIOR FILING DATE: 2003-07-03
18 <160> NUMBER OF SEQ ID NOS: 17
20 <170> SOFTWARE: PatentIn version 3.3
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 638
24 <212> TYPE: PRT
25 <213> ORGANISM: Escherichia coli
27 <400> SEQUENCE: 1
29 Met Gly Lys Ile Ile Gly Ile Asp Leu Gly Thr Thr Asn Ser Cys Val
30 1 5 10 15
33 Ala Ile Met Asp Gly Thr Thr Pro Arg Val Leu Glu Asn Ala Glu Gly
34 20 25 30
37 Asp Arg Thr Thr Pro Ser Ile Ile Ala Tyr Thr Gln Asp Gly Glu Thr
38 35 40 45
41 Leu Val Gly Gln Pro Ala Lys Arg Gln Ala Val Thr Asn Pro Gln Asn
42 50 55 60
45 Thr Leu Phe Ala Ile Lys Arg Leu Ile Gly Arg Arg Phe Gln Asp Glu
46 65 70 75 80
49 Glu Val Gln Arg Asp Val Ser Ile Met Pro Phe Lys Ile Ile Ala Ala
50 85 90 95
53 Asp Asn Gly Asp Ala Trp Val Glu Val Lys Gly Gln Lys Met Ala Pro
54 100 105 110
57 Pro Gln Ile Ser Ala Glu Val Leu Lys Lys Met Lys Lys Thr Ala Glu
58 115 120 125
61 Asp Tyr Leu Gly Glu Pro Val Thr Glu Ala Val Ile Thr Val Pro Ala
62 130 135 140
65 Tyr Phe Asn Asp Ala Gln Arg Gln Ala Thr Lys Asp Ala Gly Arg Ile
66 145 150 155 160
69 Ala Gly Leu Glu Val Lys Arg Ile Ile Asn Glu Pro Thr Ala Ala Ala
70 165 170 175
73 Leu Ala Tyr Gly Leu Asp Lys Gly Thr Gly Asn Arg Thr Ile Ala Val
74 180 185 190

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77 Tyr Asp Leu Gly Gly Gly Thr Phe Asp Ile Ser Ile Ile Glu Ile Asp
78      195      200      205
81 Glu Val Asp Gly Glu Lys Thr Phe Glu Val Leu Ala Thr Asn Gly Asp
82      210      215      220
85 Thr His Leu Gly Gly Glu Asp Phe Asp Ser Arg Leu Ile Asn Tyr Leu
86 225      230      235      240
89 Val Glu Glu Phe Lys Lys Asp Gln Gly Ile Asp Leu Arg Asn Asp Pro
90      245      250      255
93 Leu Ala Met Gln Arg Leu Lys Glu Ala Ala Glu Lys Ala Lys Ile Glu
94      260      265      270
97 Leu Ser Ser Ala Gln Gln Thr Asp Val Asn Leu Pro Tyr Ile Thr Ala
98      275      280      285
101 Asp Ala Thr Gly Pro Lys His Met Asn Ile Lys Val Thr Arg Ala Lys
102      290      295      300
105 Leu Glu Ser Leu Val Glu Asp Leu Val Asn Arg Ser Ile Glu Pro Leu
106 305      310      315      320
109 Lys Val Ala Leu Gln Asp Ala Gly Leu Ser Val Ser Asp Ile Asp Asp
110      325      330      335
113 Val Ile Leu Val Gly Gly Gln Thr Arg Met Pro Met Val Gln Lys Lys
114      340      345      350
117 Val Ala Glu Phe Phe Gly Lys Glu Pro Arg Lys Asp Val Asn Pro Asp
118      355      360      365
121 Glu Ala Val Ala Ile Gly Ala Ala Val Gln Gly Gly Val Leu Thr Gly
122      370      375      380
125 Asp Val Lys Asp Val Leu Leu Leu Asp Val Thr Pro Leu Ser Leu Gly
126 385      390      395      400
129 Ile Glu Thr Met Gly Gly Val Met Thr Thr Leu Ile Ala Lys Asn Thr
130      405      410      415
133 Thr Ile Pro Thr Lys His Ser Gln Val Phe Ser Thr Ala Glu Asp Asn
134      420      425      430
137 Gln Ser Ala Val Thr Ile His Val Leu Gln Gly Glu Arg Lys Arg Ala
138      435      440      445
141 Ala Asp Asn Lys Ser Leu Gly Gln Phe Asn Leu Asp Gly Ile Asn Pro
142      450      455      460
145 Ala Pro Arg Gly Met Pro Gln Ile Glu Val Thr Phe Asp Ile Asp Ala
146 465      470      475      480
149 Asp Gly Ile Leu His Val Ser Ala Lys Asp Lys Asn Ser Gly Lys Glu
150      485      490      495
153 Gln Lys Ile Thr Ile Lys Ala Ser Ser Gly Leu Asn Glu Asp Glu Ile
154      500      505      510
157 Gln Lys Met Val Arg Asp Ala Glu Ala Asn Ala Glu Ala Asp Arg Lys
158      515      520      525
161 Phe Glu Glu Leu Val Gln Thr Arg Asn Gln Gly Asp His Leu Leu His
162      530      535      540
165 Ser Thr Arg Lys Gln Val Glu Glu Ala Gly Asp Lys Leu Pro Ala Asp
166 545      550      555      560
169 Asp Lys Thr Ala Ile Glu Ser Ala Leu Thr Ala Leu Glu Thr Ala Leu
170      565      570      575
173 Lys Gly Glu Asp Lys Ala Ala Ile Glu Ala Lys Met Gln Glu Leu Ala

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174          580          585          590
177 Gln Val Ser Gln Lys Leu Met Glu Ile Ala Gln Gln Gln His Ala Gln
178          595          600          605
181 Gln Gln Thr Ala Gly Ala Asp Ala Ser Ala Asn Asn Ala Lys Asp Asp
182          610          615          620
185 Asp Val Val Asp Ala Glu Phe Glu Glu Val Lys Asp Lys Lys
186 625          630          635
189 <210> SEQ ID NO: 2
190 <211> LENGTH: 1917
191 <212> TYPE: DNA
192 <213> ORGANISM: Escherichia coli
194 <400> SEQUENCE: 2
195 atgggtaaaa taattggtat cgacctgggt actaccaact cttgtgtagc gattatggat      60
197 ggcaccactc ctgcgtgctt ggagaacgcc gaaggcgatc gcaccacgcc ttctatcatt      120
199 gcctataccc aggatggtga aactctagtt ggtcagccgg ctaaactgca ggcagtgcag      180
201 aacccgcaaa acactctggt tgcgattaaa cgcctgattg gtcgcgcgtt ccaggacgaa      240
203 gaagtacagc gtgatgtttc catcatgccg ttcaaaatta ttgctgctga taacggcgac      300
205 gcatgggtcg aagttaaagg ccagaaaatg gcaccgccgc agatttctgc tgaagtgcgt      360
207 aaaaaaatga agaaaaccgc tgaagattac ctgggtgaac cggtaactga agctgttatc      420
209 accgtaccgg catactttaa cgatgctcag cgtcaggcaa ccaaagacgc aggccgtatc      480
211 gctggctctg aagtaaaacg tatcatcaac gaaccgaccg cagctgcgct ggcttacggt      540
213 ctggacaaaag gcaactggca cctactatc gcggtttatg acctgggtgg tggactttc      600
215 gatatttcta ttatcgaaat cgacgaagtt gacggcgaaa aaaccttcga agttctggca      660
217 accaaccggt ataccacact ggggggtgaa gacttcgaca gccgtctgat caactatctg      720
219 gttgaagaat tcaagaaaga tcagggcatt gacctgcgca acgatccgct ggcaatgcag      780
221 cgcctgaaag aagcggcaga aaaagcgaaa atcgaaactgt cttccgctca gcagaccgac      840
223 gttaacctgc catacatcac tgcagacgcg accggtccga aacacatgaa catcaaagtg      900
225 actcgtgcga aactggaaag cctggttgaa gatctggtaa accgttccat tgagccgctg      960
227 aaagttgcac tgcaggacgc tggcctgtcc gtatctgata tcgacgacgt tatcctcggt      1020
229 ggtggtcaga ctgatatgcc aatggttcag ctgagttctt tggtaaagag      1080
231 ccgcgtaaag acgttaaccc ggacgaagct gtagcaatcg gtgctgctgt tcaggggtggt      1140
233 gttctgactg gtgacgtaaa agacgtactg ctgctggacg ttaccccgct gtctctgggt      1200
235 atcgaaacca tgggcggtgt gatgacgacg ctgatcgaga aaaacaccac tatcccgacc      1260
237 aagcacagcc aggtgttctc taccgctgaa gacaaccagt ctgcggtaac catccatgtg      1320
239 ctgcagggtg aacgtaaacg tgcggtgatg aacaaatctc tgggtcagtt caacctagat      1380
241 ggtatcaacc cggcaccgcg cggcatgccg cagatcgaag ttaccttcga tatcgatgct      1440
243 gacggtatcc tgcacgtttc cgcgaaagat aaaaacagcg gtaaagagca gaagatcacc      1500
245 atcaaggctt cttctggtct gaacgaagat gaaatccaga aaatggtacg cgacgcagaa      1560
247 gctaacgccc aagctgaccg taagtttgaa gagctggtac agactcgcaa ccagggcgac      1620
249 catctgctgc acagcaccgg taagcaggtt gaagaagcag gcgacaaact gccggctgac      1680
251 gacaaaactg ctatcgagtc tgcgctgact gcactggaaa ctgctctgaa aggtgaagac      1740
253 aaagccgcta tcgaagcgaa aatgcaggaa ctggcacagg tttcccagaa actgatggaa      1800
255 atcgcccagc agcaacatgc ccagcagcag actgccggtg ctgatgcttc tgcaaacaac      1860
257 gcgaaagatg acgatgttgt cgacgctgaa tttgaagaag tcaaagacaa aaaataa      1917
260 <210> SEQ ID NO: 3
261 <211> LENGTH: 55
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial
265 <220> FEATURE:

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266 <223> OTHER INFORMATION: Synthetic DNA
268 <400> SEQUENCE: 3
269 gcggatccat cgagggtaga ggtgacgtaa aagacgtact gctgctggac gttac      55
272 <210> SEQ ID NO: 4
273 <211> LENGTH: 33
274 <212> TYPE: DNA
275 <213> ORGANISM: Artificial
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Synthetic DNA
280 <400> SEQUENCE: 4
281 ttattttttg tctttgactt cttcaaattc agc      33
284 <210> SEQ ID NO: 5
285 <211> LENGTH: 30
286 <212> TYPE: DNA
287 <213> ORGANISM: Artificial
289 <220> FEATURE:
290 <223> OTHER INFORMATION: Synthetic DNA
292 <400> SEQUENCE: 5
293 gccggctgac gactaaactg ctatcgagtc      30
296 <210> SEQ ID NO: 6
297 <211> LENGTH: 30
298 <212> TYPE: DNA
299 <213> ORGANISM: Artificial
301 <220> FEATURE:
302 <223> OTHER INFORMATION: Synthetic DNA
304 <400> SEQUENCE: 6
305 gactcgatag cagtttagtc gtcagccggc      30
308 <210> SEQ ID NO: 7
309 <211> LENGTH: 30
310 <212> TYPE: DNA
311 <213> ORGANISM: Artificial
313 <220> FEATURE:
314 <223> OTHER INFORMATION: Synthetic DNA
316 <400> SEQUENCE: 7
317 tgctctgaaa ggtaagaca aagccgctat      30
320 <210> SEQ ID NO: 8
321 <211> LENGTH: 30
322 <212> TYPE: DNA
323 <213> ORGANISM: Artificial
325 <220> FEATURE:
326 <223> OTHER INFORMATION: Synthetic DNA
328 <400> SEQUENCE: 8
329 atagcggcctt tgtcttaacc tttcagagca      30
332 <210> SEQ ID NO: 9
333 <211> LENGTH: 30
334 <212> TYPE: DNA
335 <213> ORGANISM: Artificial
337 <220> FEATURE:
338 <223> OTHER INFORMATION: Synthetic DNA

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340 <400> SEQUENCE: 9
341 gcagcaacat gcctaacagc agactgccgg 30
344 <210> SEQ ID NO: 10
345 <211> LENGTH: 30
346 <212> TYPE: DNA
347 <213> ORGANISM: Artificial
349 <220> FEATURE:
350 <223> OTHER INFORMATION: Synthetic DNA
352 <400> SEQUENCE: 10
353 ccggcagtct gctgttaggc atgttgctgc 30
356 <210> SEQ ID NO: 11
357 <211> LENGTH: 30
358 <212> TYPE: DNA
359 <213> ORGANISM: Artificial
361 <220> FEATURE:
362 <223> OTHER INFORMATION: Synthetic DNA
364 <400> SEQUENCE: 11
365 ccttcgatat cgttgctgtc ggtatcctgc 30
368 <210> SEQ ID NO: 12
369 <211> LENGTH: 30
370 <212> TYPE: DNA
371 <213> ORGANISM: Artificial
373 <220> FEATURE:
374 <223> OTHER INFORMATION: Synthetic DNA
376 <400> SEQUENCE: 12
377 gcaggatacc gacagcaacg atatcgaagg 30
380 <210> SEQ ID NO: 13
381 <211> LENGTH: 27
382 <212> TYPE: DNA
383 <213> ORGANISM: Artificial
385 <220> FEATURE:
386 <223> OTHER INFORMATION: Synthetic DNA
388 <400> SEQUENCE: 13
389 tctggatcca acgaagatga aatccag 27
392 <210> SEQ ID NO: 14
393 <211> LENGTH: 30
394 <212> TYPE: DNA
395 <213> ORGANISM: Artificial
397 <220> FEATURE:
398 <223> OTHER INFORMATION: Synthetic DNA
400 <400> SEQUENCE: 14
401 gcggatccgc tgaccgtaag tttgaagagc 30
404 <210> SEQ ID NO: 15
405 <211> LENGTH: 29
406 <212> TYPE: DNA
407 <213> ORGANISM: Artificial
409 <220> FEATURE:
410 <223> OTHER INFORMATION: Synthetic DNA
412 <400> SEQUENCE: 15

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/562,776

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Input Set : A:\248832.ST25.txt
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,12,13,14,15,16,17

VERIFICATION SUMMARY

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Input Set : A:\248832.ST25.txt

Output Set: N:\CRF4\01102006\J562776.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date